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## What is claimed is:

- 1. An device for implanting biological moieties in a host, comprising:
- a. a tube which comprises proximal and distal ends, at least a portion of the length of said tube bound by an isolating jacket;
  - b. a conduit bound by a casing which defines a lumen therein, said conduit mounted between the proximal and distal ends of said tube; and
  - c. a chamber within said tube defined by said jacket and said casing.
  - 2. The device of claim 1 wherein said jacket comprises an elastomer selected from the group consisting of silicon, polyurethane, or a blends thereof.

3. The device of claim 1 wherein the casing comprises semi-permeable material selected from the group consisting of silicon, polyurethane, or a blends thereof.

- 4. The device of claim 1 wherein the surface of the jacket in contact with the blood stream is biocompatible.
  - 5. The device of claim 4 wherein the surface of the jacket comprises anti-thrombotic material.
- The device of claim 1 wherein medium is disposed in said chamber, said lumen, or said chamber and lumen.
  - 7. The device of claim 6 wherein said medium comprises solutes comprising biological moieties.
  - 8. The device of claim 6 wherein solutes diffusively transport between said lumen, said chamber, and said bloodstream.
- 9. The device of claim 1 wherein said lumen is sized for over-the-wire insertion in a blood vessel.
  - 10. The device of claim 1 wherein one or both ends of the lumen is fitted with either a seal or a valve.
- The device of claim 1 wherein said conduit is sufficiently rigid to resist kinking of the device upon insertion into and travel in a peripheral blood vessel.

- The device of claim 1 wherein said chamber comprises at least one support member positioned between said conduit and said semi-permeable jacket and disposed for engaging an interior surface of the jacket.
  - 13. The device of claim 12 wherein said support member is helical.

14. The device of claim 13 wherein said support member comprises a helical shaft and a bore formed the length of the shaft.

- 15. The device of claim 1 wherein a catheter having a proximal end and a distal end is mounted in fluid communication on the conduit disposed at the proximal end of the device.
  - 16. The device of claim 15 wherein an injection port is mounted on the proximal end of said catheter in fluid communication with the lumen.
  - 17. The device of claim 16 wherein said injection port is implantable.
  - 18. A device for implanting biological moieties in a host, comprising:
- a. a tube which comprises proximal and distal ends, at least a portion of the length of said tube bound by an isolating jacket;
  - b. a conduit bound by a casing which defines a lumen therein, said conduit mounted between the proximal and distal ends of said tube;
  - c. a chamber within said tube defined by said jacket and said casing;
  - d. at least one support member positioned between said conduit and said jacket and disposed for engaging an interior surface of the jacket.
  - 19. The device of claim 18 wherein a catheter having a proximal end and a distal end is mounted in fluid communication on the conduit disposed at the proximal end of the device.
- The device of claim 19 wherein an injection port is mounted on the proximal end of said catheter in fluid communication with the lumen.
  - 21. The device of claim 20 wherein said injection port is implantable.
- The device of claim 18 wherein said jacket comprises an elastomer selected from the group consisting of silicon, polyurethane, or a blends thereof.
  - 23. The device of claim 18 wherein the casing comprises semi-permeable material selected from the group consisting of silicon, polyurethane, or a blends thereof.

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- 24. The device of claim 18 wherein the surface of the jacket in contact with the blood stream is biocompatible.
- The device of claim 24 wherein the surface of the jacket comprises antithrombotic material.
  - 26. The device of claim 18 wherein medium is disposed in said chamber, said lumen, or said chamber and lumen.
- 15 27. The device of claim 26 wherein said medium comprises solutes comprising biological moieties.
  - 28. The device of claim 26 wherein solutes diffusively transport between said lumen, said chamber, and said bloodstream.
  - 29. The device of claim 18 wherein said lumen is sized for over-the-wire insertion in a blood vessel.
- The device of claim 18 wherein one or both ends of the lumen is fitted with either a seal or a valve.
  - 31. The device of claim 18 wherein said conduit is sufficiently rigid to resist kinking of the device upon insertion into and travel in a peripheral blood vessel.
- 32. The device of claim 18 wherein said support member is helical and comprises a helical shaft and a bore formed the length of the shaft.
- 33. A method of treating an individual in need of therapeutic treatment which involves administration of a biological moiety, the method comprising the step of introducing the device of claim 1 into the central venous vasculature for a sufficient period to deliver a sufficient amount of said biological moiety to the individual to achieve a therapeutic effect.
- 34. The method of claim 33 wherein said individual requires therapeutic treatment for diabetes.
  - 35. A method of introducing a biological implant into an individual, comprising the step of inserting the device of claim 1 into the central venous vasculature.
- The method of claim 35 wherein said individual requires therapeutic treatment for diabetes.
  - 37. A method of treating an individual in need of therapeutic treatment which involves administration of a biological moiety, the method comprising the step of

introducing the device of claim 1 into the peritoneal cavity or subcutaneous tissue for a sufficient period to deliver a sufficient amount of said biological moiety to the individual to achieve a therapeutic effect.

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